

### **Abstract**

Various endeffector designs are disclosed for handling semiconductor wafers. For instance, an endeffector for handling wafers at a relatively low temperature is disclosed along with an endeffector for handling wafers at a relatively high temperature. Both endeffectors include uniquely designed support members that are configured to only contact a wafer at the wafer's edge. The endeffectors may also include a wafer detection system. The endeffector for handling wafers at relatively low temperatures may also include a pushing device that is used not only to position a wafer but to hold a wafer on the endeffector during acceleration or deceleration of the endeffector caused by a robot arm attached to the endeffector. As designed, the endeffectors may have a very slim profile making the endeffectors easily maneuverable.